

BAHAGIAN 3.13 : PIPEWORKS (CLASS O)

Kawasan Utara - Perlis, Kedah, Pulau Pinang dan Perak
 Kawasan Tengah - Wilayah Persekutuan Kuala Lumpur, Melaka, Negeri Sembilan, Selangor dan Johor
 Kawasan Timur - Pahang, Terengganu dan Kelantan

BIL	KETERANGAN KERJA	UNIT	KAWASAN UTARA		KAWASAN TENGAH		KAWASAN TIMUR		KESELURUHAN	
			PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)	PURATA (RM)	JULAT (RM)
1	TRENCH EXCAVATION Trench excavation for 500mm D.I pipe with 1000mm wide Bedding include temporary shoring, dewatering and other work necessary for the completion of trench excavation works for average depth to invert, 2.0m.	m			11.20	5.00 - 18.00			11.20	5.00 - 18.00
2	BACKFILLING AND BEDDING MATERIALS Backfill trench with imported sand on top of pipe bedding to subgrade for 500mm dia. D.I. pipe with 1000mm wide bed.	m			25.25	7.00 - 66.00			25.25	7.00 - 66.00
3	Pipe Bedding Bedding for 500mm D.I pipe with 1000mm wide bed with approved imported sand.	m			90.60	15.00 - 240.00			90.60	15.00 - 240.00
4	PIPES Supply and lay 500mm Ductile Iron, pipe conforming to BS 4772 with flexible joints and laid to manufacturer's instruction from pump sump to ground level at screen chamber include all bends, Tees, adaptors, mechanical couplings, etc for a complete installation including incidentals when pipe reroutings are required.	m			385.00	150.00 - 1,000.00			385.00	150.00 - 1,000.00

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5	Supply and lay 75mm HDPE pipe (average length 7m) below the walkway for polymer pumping system including 1.0m x 1.0m x 1.5m depth RC sump complete with MS grating.	no.			1,092.00	450.00 - 3,344.00			1,092.00	450.00 - 3,344.00
6	Supply and placement of approved 900mm nominal internal diameter of HDPE Pipe (min. 100mm thick - Tripple Wall) including others necessary works.	m			950.00	345.00 - 1,600.00			950.00	345.00 - 1,600.00
7	Supply, transport and deliver to the site of approved 1200mm nominal diameter of HDPE Pipe (min. 100mm thick - Tripple Wall) including jointing materials suitable for subsequent laying through the jacked pipes (crossing the river).	m			1,200.00	458.00 - 2,100.00			1,200.00	458.00 - 2,100.00
8	225mm diameter Pipe laid in trench (measured separately) vitrified clay pipe as described Class 'EX' with spigot and socket ring joint.	m			91.00	60.00 - 155.00			91.00	60.00 - 155.00
9	Supplying and laying 0.9m dia RC collector pipe in toe drain.	m	331.80	170.00 - 500.00					331.80	170.00 - 500.00

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	<u>FITTINGS, VALVES AND JOINTS</u>									
10	Pipe Support and Bends Provide pipe support and bends for installation of 500mm dia. D.I, forcemain include excavation, piles, RC works, back fill.	no.			910.00	100.00 - 3,600.00			910.00	100.00 - 3,600.00
	<u>SPECIAL PIPE LAYING METHODS</u>									
11	Carry out jacking of ND:1200mm class 2Z reinforced concrete pipe including jointing, suitable for subsequent laying of 900mm HDPE pipes through the jacked pipes. Rate to include survey, prospecting, jack and roller assembly (crossing the main road).	m			1,966.00	1,450.00 - 3,168.00			1,966.00	1,450.00 - 3,168.00
12	Carry out jacking of ND:1500mm class 2Z reinforced concrete pipe including jointing, suitable for subsequent laying of 1200mm HDPE pipes through the jacked pipes. Rate to include survey, prospecting, jack and roller assembly (crossing the river).	m			3,032.00	2,100.00 - 3,950.00			3,032.00	2,100.00 - 3,950.00

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	<u>MISCELLANEOUS WORK</u>									
	Precast R.C. Manhole									
	Supply and placement of approved 1.5m nominal diameter precast R.C. Manhole complete with heavy duty ductile iron cover including others necessary works for :									
13	Not exceeding 3.0m	no.			3,345.00	2,400.00 - 5,280.00			3,345.00	2,400.00 - 5,280.00
14	exceeding 3.0m but not exceeding 4.5m	no.			4,474.00	3,000.00 - 7,920.00			4,474.00	3,000.00 - 7,920.00
15	exceeding 4.5m but not exceeding 6.0m	no.			5,077.00	3,200.00 - 10,560.00			5,077.00	3,200.00 - 10,560.00
16	exceeding 6.0m but not exceeding 7.5m	no.			5,673.00	3,100.00 - 13,200.00			5,673.00	3,100.00 - 13,200.00
17	exceeding 7.5m but not exceeding 9.0m	no.			6,896.00	4,000.00 - 15,840.00			6,896.00	4,000.00 - 15,840.00
	Services Manhole									
18	Form and construct the opening size 700mm x 700mm at the box culvert p.c. slab for services manhole c/w M.S. Grating and Step Ladder as shown in the drawing. The installation of services manhole should be not more than 10m interval	no.			1,010.20	500.00 - 1,500.00			1,010.20	500.00 - 1,500.00